

22.5mm Pushbuttons, Selectors and Indicators

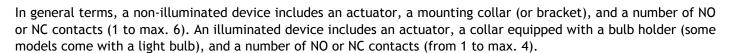
This traditional line of 22.5mm dia. control devices (pushbuttons, selector switches and pilot lights) from ITC was designed to provide safe operation and offer ease of assembly.

The main features include:

- Reduced footprint on the panel surface.
- Self-cleaning contacts.
- Intrinsic grounding of the actuator metal parts.
- Excellent flammability rating.
- Shrouded terminals.
- Robust construction.

The following products are included in this catalog:

- Pushbuttons (illuminated and non-illuminated).
- Lever selector switches (illuminated and non-illuminated).
- Key selector switches.
- Emergency Stop Switches (illuminated or non-illuminated), also known as E-stops or Mushroom pushbuttons.
- Pilot lights.
- Accessories, including nameplates, shrouds, empty pushbutton stations.



Actuators have chrome plated metal bezels. Pre-assembled actuators/collars (brackets) are also available. All devices described in this catalog can be mounted on metal plates 1 to 6 mm thick. Bulb holders accept Ba9s (bayonet) bulbs, voltages up to 220V, with bulb diameter max. 10mm. and max length 28mm. Contacts are double-break type, with self-wiping design. Gold plated contacts for low-voltage applications are also available. Contact elements and bulb holders have shrouded terminals with combined (slot/Philips) screws.

Mounting

Minimum distance between centers of adjacent devices is 30x40mm. However, the actual layout should be defined based on the application and the type of device used (e.g., a 60mm. dia. E-stop requires greater distance between centres, etc...). Actuators and pilot light heads mount on the collar (bracket) with a twist-lock-type fixing requiring no tools. The complete assembly locks into position on the panel by means of two pointed screws (M4) tightened from the rear. These screws should be tightened equally, to the point where they pierce through the paint on the panel, thus ensuring good grounding of the device.

General and technical characteristics:

Approvals CSA C22-2 No. 14-95, UL508, EN60947 -5/1/2000, VDE 0660

Ingress protection IP65 as per IEC529, NEMA 4X / 12 as per UL50

Ambient temperature -25°C to +70°C (operation)

Mechanical life 1,000,000 operations (pushbuttons, selectors) - 300,000 operations (E-stops)

Frequency of operation max. 3600 op/hour

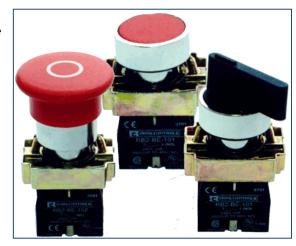
Contact Operation Slow break, Self wiping (NO or NC). NC with Positive Opening Operation.

Rated thermal current 10A Rated insulation voltage 500V

Terminal capacity Min. 1 x 0.5mm², max 2 x 1.5mm² or 1 x 2.5mm²

Contact marking NC: 1-2 NO: 3-4

Contact Electrical Rating AC15: 24V/4A - 120V/3A - 220V/2A - DC13: 24V/0.5A - 110V/0.2A





Non-illuminated Pushbuttons (order by Part No.):

Spring Return Flush Head Actuator



Spring Return Projecting Head Actuator



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|--------|---------------|----------------------------|--------|--|----------------------------|--|--|
| | Part | : No. | | Part No. | | | |
| Colour | Actuator only | Actuator & mounting collar | Colour | Actuator only | Actuator & mounting collar | | |
| White | RB2-BA1 | RB2-BA1-B | White | RB2-BL1 | RB2-BL1-B | | |
| Black | RB2-BA2 | RB2-BA2-B | Black | RB2-BL2 | RB2-BL2-B | | |
| Green | RB2-BA3 | RB2-BA3-B | Green | RB2-BL3 | RB2-BL3-B | | |
| Red | RB2-BA4 | RB2-BA4-B | Red | RB2-BL4 | RB2-BL4-B | | |
| Yellow | RB2-BA5 | RB2-BA5-B | Yellow | RB2-BL5 | RB2-BL5-B | | |
| Blue | RB2-BA6 | RB2-BA6-B | Blue | RB2-BL6 | RB2-BL6-B | | |

Information subject to change without notice

Non-illuminated Pushbuttons - Universal Flush Head Actuator with Interchangeable Color Disks - Flush Head Actuators with Symbols (order by Part No.):

Spring Return Flush Head Actuator









Spring Return Flush Head Actuators with Symbols



| | Part No. | | | | Part No. | |
|--------------------|---------------|----------------------------|--------|---------|---------------|----------------------------|
| Colour | Actuator only | Actuator & mounting collar | Colour | Marking | Actuator only | Actuator & mounting collar |
| Universal Actuator | RB2-BA0 | RB2-BA0-B | White | N | RB2-BA334 | RB2-BA334-B |
| White Disk | RB2-BA0-1 | - | Black | М | RB2-BA335 | RB2-BA335-B |
| Black Disk | RB2-BA0-2 | - | Red | STOP | RB2-BA434 | RB2-BA434-B |
| Green Disk | RB2-BA0-3 | - | Red | 0 | RB2-BA432 | RB2-BA432-B |
| Red Disk | RB2-BA0-4 | - | Green | I | RB2-BA331 | RB2-BA331-B |
| Yellow Disk | RB2-BA0-5 | - | Green | II | RB2-BA336 | RB2-BA336-B |
| Blue Disk | RB2-BA0-6 | - | Blue | RESET | RB2-BA666 | RB2-BA666-B |

Information subject to change without notice

Illuminated Pushbuttons (order by Part No.):

Illuminated Spring Return Flush Head Actuator



Illuminated Spring Return Projecting Head Actuator



| | Par | t No. | | Par | Part No. | | |
|--------|---------------|--------------------------------|--------|---------------|--------------------------------|--|--|
| Colour | Actuator only | Actuator & Bulb Holder Ba9s | Colour | Actuator only | Actuator & Bulb Holder Ba9s | | |
| White | RB2-BW31 | RB2-BW31-B | White | RB2-BW11 | RB2-BW11-B | | |
| Green | RB2-BW33 | RB2-BW33-B | Green | RB2-BW13 | RB2-BW13-B | | |
| Red | RB2-BW34 | RB2-BW34-B | Red | RB2-BW14 | RB2-BW14-B | | |
| Amber | RB2-BW35 | RB2-BW35-B | Amber | RB2-BW15 | RB2-BW15-B | | |
| Blue | RB2-BW36 | RB2-BW36-B | Blue | RB2-BW16 | RB2-BW16-B | | |
| Clear | RB2-BW37 | RB2-BW37-B | Clear | RB2-BW17 | RB2-BW17-B | | |

Information subject to change without notice Bulb holders are supplied without bulbs



Non-illuminated Selector Switches (order by Part No.):

Selector Actuator w/Standard Arm (Black)



Selector Actuator w/Extended Arm (Black)



| | Part | t No. | | Part No. | | | |
|---------------------------------|---------------|----------------------------|---------------------------------|---------------|----------------------------|--|--|
| Action | Actuator only | Actuator & mounting collar | Action | Actuator only | Actuator & mounting collar | | |
| 2 Pos. Maintained | RB2-BD2 | RB2-BD2-B | 2 Pos. Maintained | RB2-BJ2 | RB2-BJ2-B | | |
| 2 Pos. Spring Ret. To Left | RB2-BDR2 | RB2-BDR2-B | 2 Pos. Spring Ret. To Left | RB2-BJR2 | RB2-BJR2-B | | |
| 3 Pos. Maintained | RB2-BD3 | RB2-BD3-B | 3 Pos. Maintained | RB2-BJ3 | RB2-BJ3-B | | |
| 3 Pos. Spring Ret. To Centre | RB2-BDR3 | RB2-BDR3-B | 3 Pos. Spring Ret. To Centre | RB2-BJR3 | RB2-BJR3-B | | |

Information subject to change without notice

Illuminated Selector Switches (order by Part No.):

2-Position Illuminated Selector Actuator



3-Position Illuminated Selector Actuator



| | | Part No. | | | Part No. | | |
|-------------------------------|--------|---------------|--------------------------------|------------------------------------|----------|---------------|--------------------------------|
| Action | Colour | Actuator only | Actuator & Bulb Holder Ba9s | Action | Colour | Actuator only | Actuator & Bulb Holder Ba9s |
| 2 Pos. Maintained | Green | RB2-BK123 | RB2-BK123-B | | Green | RB2-BK133 | RB2-BK133-B |
| | Red | RB2-BK124 | RB2-BK124-B | 3 Pos. Maintained | Red | RB2-BK134 | RB2-BK134-B |
| | Amber | RB2-BK125 | RB2-BK125-B | | Amber | RB2-BK135 | RB2-BK135-B |
| | Blue | RB2-BK126 | RB2-BK126-B | | Blue | RB2-BK136 | RB2-BK136-B |
| 2 Pos. Spring Ret. To Left | Green | RB2-BK143 | RB2-BK143-B | 3 Pos. Spring Ret. To Centre | Green | RB2-BK153 | RB2-BK153-B |
| | Red | RB2-BK144 | RB2-BK144-B | | Red | RB2-BK154 | RB2-BK154-B |
| | Amber | RB2-BK145 | RB2-BK145-B | | Amber | RB2-BK155 | RB2-BK155-B |
| | Blue | RB2-BK146 | RB2-BK146-B | | Blue | RB2-BK156 | RB2-BK156-B |

Information subject to change without notice

Key Selector Switches (order by Part No.):

Key Selector Switches - 2 positions



Key Selector Switches - 3 positions



| Part No. | | | Part No. | | | art No. | |
|------------------------|----------------|---------------|----------------------------|-------------------------------------|----------------|---------------|----------------------------|
| Action | Key Removal | Actuator only | Actuator & mounting collar | Action | Key Removal | Actuator only | Actuator & mounting collar |
| Maintained | Left | RB2-BG2 | RB2-BG2-B | Maintained | Left | RB2-BG9 | RB2-BG9-B |
| | Right | RB2-BG02 | RB2-BG02-B | | Right | RB2-BG09 | RB2-BG09-B |
| | All Pos. | RB2-BG4 | RB2-BG4-B | | All Pos. | RB2-BG0 | RB2-BG0-B |
| | | | | | Centre | RB2-BG3 | RB2-BG3-B |
| | | | | | L & R | RB2-BG5 | RB2-BG5-B |
| Spring ret. To Left | Left | RB2-BG6 | RB2-BG6-B | Spring Ret. To Centre | Centre | RB2-BG7 | RB2-BG7-B |
| | | | | Maint. L & C Spring Ret. To C | Centre | RB2-BG8 | RB2-BG8-B |

Note: Standard key N. 455 - Other keys upon request. Information subject to change without notice